EMOTIVA®

UMC-200 Firmware Update – Version 1.52.02.39 (May 16, 2013)

PLEASE read ALL notes on this page before proceeding with your firmware update, and please follow all instructions EXACTLY when perfoming the update procedure!

NOTE 1: This is the first firmware update released for the UMC-200 since initial product release, and fixes several bugs identified in the initial release firmware, as well as implementing several minor improvements. This update is recommended for all UMC-200 owners.

NOTE 2: YOU WILL BE REQUIRED TO RESET YOUR UMC-200 TO FACTORY DEFAULTS AFTER PERFORMING THIS UPDATE, AT WHICH POINT ALL USER SETTINGS WILL BE LOST. Please write down all user settings before performing the update as they will be deleted when the update is performed and you will be required to re-enter them.

NOTE 3: ALL EMOQ SETTINGS WILL BE LOST WHEN YOU RESET THE UMC-200 TO FACTORY DEFAULTS AFTER PERFORMING THE UPDATE. To restore EmoQ calibration, simply re-run EmoQ after the update procedure is complete.

NOTE 4: WHEN CONFIGURING YOUR UMC-200, DO NOT ATTEMPT TO REASSIGN THE BLUETOOTH HOT KEY. This firmware update fixes several minor bugs, including the ability to save Playback settings when the UMC-200 is powered Off. We are, however, aware of one trivial bug that remains: In the Hot Key Menu, the assignment of the Bluetooth Hot Key MUST NOT be changed. Because of the bug, however, the UMC-200 will allow you to attempt to change this key assignment, but doing so will result in the configuration becoming corrupted (and probably requiring that it be reset).

NOTE 5: SOFTWARE COMPATIBILITY. The firmware updater application and driver available for download from the Emotiva website have been tested and verified to work reliably with the following computer operating systems:

> *Windows 7 (32 bit and 64 bit versions)*
> *Windows XP*

NOTE 6: REPEAT INSTALLS. Once the firmware installs successfully, there is no benefit in re-installing it repeatedly (it won't "sound better" if you do so). While you may be instructed by Emotiva Technical Support to reinstall your firmware at some point, we do NOT otherwise recommend reinstalling it once it has been successfully installed in an attempt to "make the UMC-200 sound better".

NOTE 7: THE USB PORT ON THE REAR OF THE UMC-200 IS INTENDED *ONLY* FOR FIRMWARE UPDATES. IF A USB CABLE IS INSERTED INTO THE USB PORT, *EVEN IF THE OTHER END IS NOT PLUGGED IN*, YOUR UMC-200 MAY NOT FUNCTION CORRECTLY. ONLY CONNECT A CABLE TO THE USB PORT WHEN INSTRUCTED TO DO SO, AND DISCONNECT THE USB CABLE *AT THE UMC-200 END* WHEN INSTRUCTED TO DO SO. FAILURE TO UNPLUG THE CABLE FROM THE UMC-200 MAY RESULT IN IMPROPER OPERATION, INCLUDING A TOTAL (TEMPORARY) LOSS OF VIDEO OUTPUT AND/OR VARIOUS DSP ERRORS.

Materials

Hardware:

- A computer with a compatible operating system.
- A standard USB (A to B type) cable; preferably 6 ft or less in length
  (the type USB cable commonly used for printers; NOT mini-USB or micro-USB).
  PLEASE USE A "STANDARD" USB CABLE FOR THIS AND AVOID SPECIAL "AUDIOPHILE CABLES".
- Your UMC-200.
- Internet access - you will need this to download the files
  (if you don't have Internet access, you will have to get the files some other way).

Software:

- UMC-200_Update_Release_2013-05-16.rar file.
- A copy of WinRar (or other compatible archiver) to extract the files from the archive package that you downloaded. (WinRar is shareware, but the trial version - which is free - may be used to extract the updater files.)

Instructions

Updating the firmware on your UMC-200 is a relatively simple process.

The main steps are as follows:

1) Download and extract the firmware updater application and the firmware file.

2) Install the firmware application on your computer.

3) Connect your computer to the UMC-200 and transfer the firmware to the UMC-200.

The actual process should take less than thirty minutes. While the entire procedure requires quite a few steps which must be performed in a specific order, the process itself is straightforward and requires no special skills. In most cases, even if a step fails (which can happen occasionally), you can "recover your place" by simply repeating the failed step before continuing.

Of course, if you get stuck you can call Emotiva Technical Support for assistance.

I. Download and Extract the Firmware Updater Application

The UMC-200 firmware updater will be provided in the form of two files:

1) A copy of these instructions (in PDF format).

2) An archive file (in RAR format); containing the installer for the firmware updater application (an EXE file), and the firmware update itself.

The archive file is PASSWORD PROTECTED.

The password is "UMC-200" (capitalization counts; and do NOT type the quotes).

To extract the files, you will need a copy of WinRAR (or another compatible archive extractor).

If WinRAR (or a compatible archiver) isn't already installed on your computer, you can download a copy of WinRAR here:

http://www.rarlabs.com/download.htm

or here:

http://download.cnet.com/windows/

WinRAR is a shareware program, but you can extract the updater using the unregistered (free trial) version of it. If you try to use another "compatible" archiver and receive an error, it may mean that your archiver doesn't support Encrypted RAR files. If so, then you will need to install and use WinRAR to extract the files.

Extracting the files

The details of how to download and save a file will vary depending on what operating system and browser software you use. The following steps assume that you know how to use your computer and how to download and save a file.

1) Create a folder (pick any name and location that will be easy for you to find and work with).

2) Download the files:

       UMC-200_UPDATE_RELEASE_2013-05-16.RAR
       UMC-200_UPDATE_RELEASE_2013-05-16.PDF

3) Use WinRAR to extract the files from the RAR file to the current folder (the default settings). (Again, the password is "UMC-200".)

You should end up with two new files in your folder:

       TWE_AVR_upgrade_V1_8_13.exe
       UMC-200_v1_520239_20130503.upg

II. Install the Firmware Updater Application on Your Computer

The firmware updater application is a Windows program.

The following steps and illustrations are for Windows 7 (64 bit, SP1), but the process should be very similar in other versions of Windows.

During the installation you may simply accept all default choices.
(If you choose to install the updater application in a different location or change other options, you must of course keep track of what you change. In these instructions, we will assume you used the defaults.)

At several points you will be required to select NEXT or to accept default choices. Depending on the version of Windows you have, and your particular configuration options, you may see additional requests for permission to install files or to load drivers at various points during the install. You should ALWAYS ALLOW the installer to install, update, or replace files if it requests to do so.
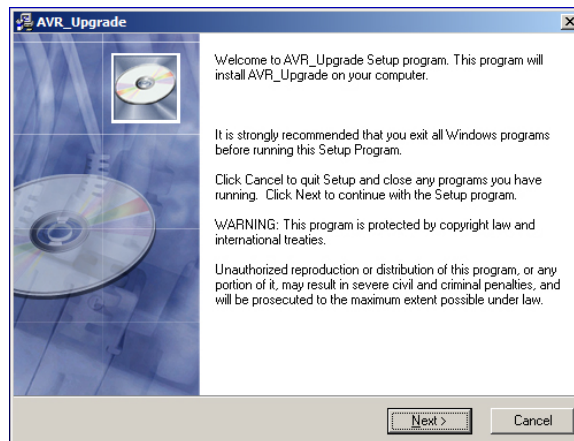
If you receive any error messages during the installation, you should note them. (Error messages may not necessarily indicate a problem, but if you do have a problem later they will help our support folks help you to determine what went wrong.)

Installing the updater application

Using Windows Explorer, or your favorite file manager, go to the folder where you extracted the RAR archive you downloaded, and double click on the executable file:
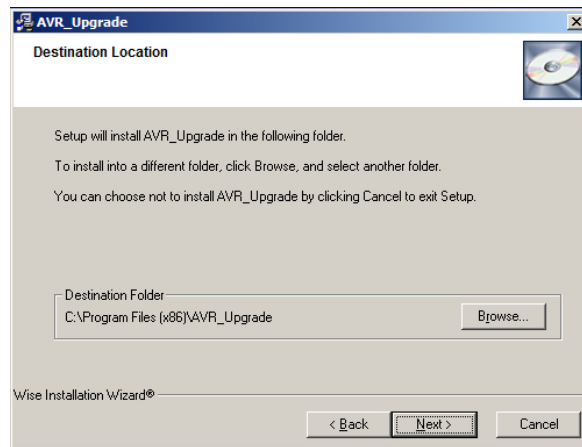
TWE_AVR_upgrade_V1_8_13.exe

When it starts to run, you should see the following screen:
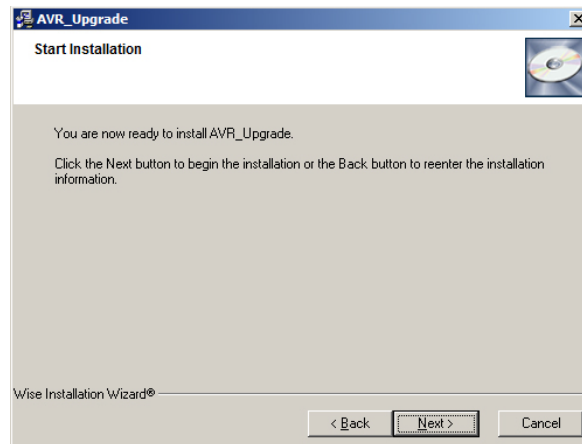

Click NEXT.

You will then be prompted to select an install location.

Click NEXT to accept the defaults (you may wish to note this location).

You will then see this screen prompting you to start the installation.
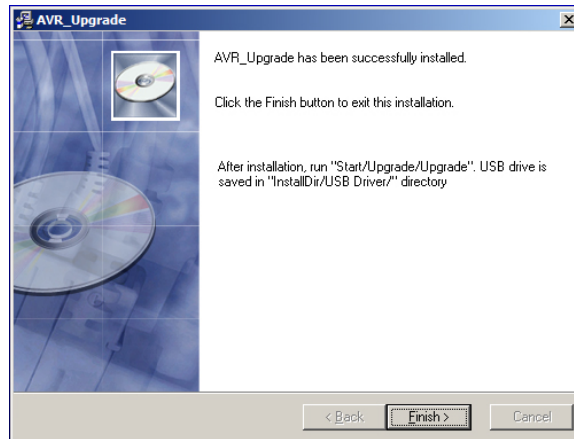

Click NEXT to start the installation.

During the installation, depending on your Windows configuration, you may see additional prompts requesting permission to install or update files. If so, you must respond YES, or OK and allow the installer to proceed. Refusing any such requests will probably result in the firmware installer not functioning correctly.
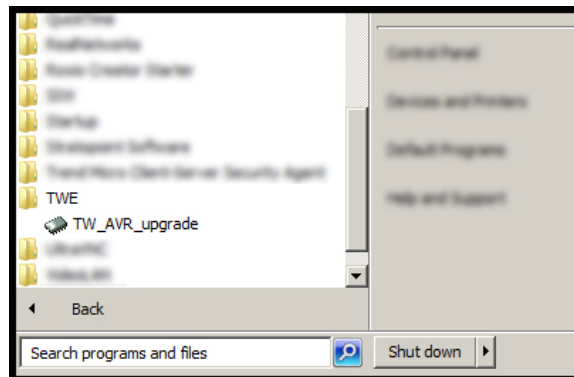
When the installation is complete, you will see the following screen.

Click FINISH to complete the installation and exit the installation process.

At this point you will note that the installer has added the following entry to your Windows 7 Start Menu. This is the firmware updater application program.

If you are using a different version of Windows, or if you wish to create an icon for the firmware update application, or if, for some other reason, the entry in your start menu was NOT created as shown, you will find the actual application installed in the "destination location" shown previously.
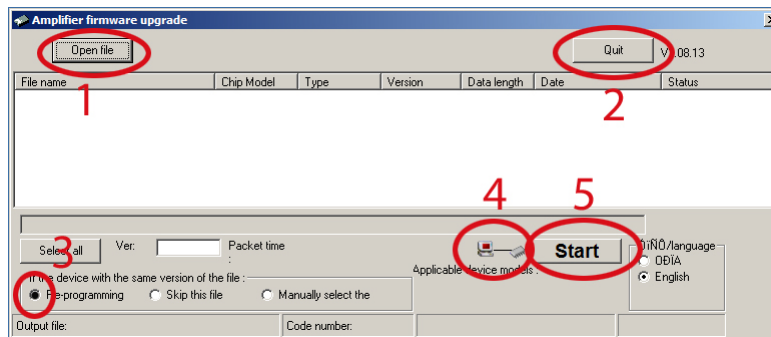
(This is in C:\Program FIles (x86)\AVR_Upgrade\TW_AVR_upgrade.exe for a typical Windows 7 installation)

Note: The first time you run the firmware upgrader application, it will probably install drivers. If so, wait until the process completes, and respond with YES or OK when prompted.

III. Install the Firmware Update on Your UMC-200

Now that the firmware updater application is installed on your computer, we are almost ready to connect the computer to your UMC-200 and install the firmware update.

At this point, you may wish to run the firmware updater application (TW_AVR_upgrade.exe) and take a quick look at the screen to familiarize yourself with it. Since you will be required to run this four times, you may want to create a desktop icon for it.
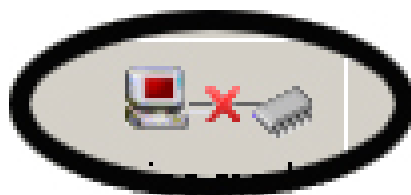

1. The OPEN FILE button is used to load the firmware update file into the updater application. To do so, you click the OPEN FILE button, use the file selector to find and select the firmware update file (UMC-200_v1_520239_20130503.upg), and click OPEN. (You can also double click on the file name.) After the first time you open the firmware file, the correct folder will appear in the file selector window without your having to find it.

2. The QUIT button is used to exit the firmware updater application.

ALWAYS CLOSE/EXIT THE UPDATER APPLICATION USING THIS BUTTON. DO NOT CLOSE THE APPLICATION USING THE RED "X" IN THE TOP RIGHT CORNER, OR USING THE TASK MANAGER. THIS CAN CAUSE THE APPLICATION TO FAIL TO EXIT MEMORY PROPERLY, AND CAN CAUSE YOUR UPDATE TO FAIL.

3. The RE-PROGRAMMING radio button instructs the firmware update application to install the firmware in a specific way. We will ALWAYS be selecting this mode for our update procedure today.

4. The Status Icon shows whether your computer and the UMC-200 are connected. The illustration above shows what it will look like when the UC-200 is connected via USB and turned on. Since we haven't told you to connect anything yet, your status icon should look slightly different right now (there should be a little RED X on the center line; like the picture below). This is what you will see between steps, while the UMC-200 is in Standby mode or Off.

THROUGHOUT MOST OF THE PROCEDURE YOUR UMC-200 WILL SHOW A STATUS OF "CONNECTED" (NO RED X in the status icon). THIS STATUS MAY CHANGE OCCASIONALLY, BUT YOU SHOULD ALWAYS BE CONNECTED (NO RED X) AT THE POINT WHERE YOU ARE INSTRUCTED TO PRESS THE START BUTTON.

If you are unable to achieve a connection (the RED X in the Status Icon remains), even when you are connected and the UMC-200 is on, the you will not be able to perform the update. Possible solutions include trying a different USB cable (AVOID using "audiophile" cables, and cables over 6 feet long), and trying a different USB port on the computer. If you are totally unable to achieve a connection between your computer and UMC-200, call Emotiva Technical Support and we'll help you figure out what's wrong.

5. The START button is used to tell the updater application to write data to the UMC-200.

If you opened the update installer update application to follow along, you should close it now.

IMPORTANT NOTE!! The UMC-200 is electrically sensitive to having a USB cable plugged into the USB UPDATE PORT on the rear panel. The UMC-200 may not function correctly for normal operation if a USB cable is plugged into the USB UPDATE PORT - EVEN IF THE OTHER END OF THE USB CABLE IS UNPLUGGED FROM THE COMPUTER. Therefore, you MUST unplug the USB cable completely from the rear panel of the UMC-200 after completing the update before resuming normal operation.

Note: You may see various errors on the UMC-200 front panel display during the update process. You may also see a blank screen, or other odd things, on the video output during the update. Ignore them.

Note: You may see messages about drivers being installed when you first power On the UMC-200 when it is connected to your computer. If prompted, grant permisison to install drivers and, if prompted, click on FINISHED for any such dialog boxes.

Preparation

At this point you should already have the firmware updater application installed on your computer.

TURN OFF YOUR UMC-200 USING THE REAR PANEL POWER SWITCH AND CONNECT IT TO YOUR COMPUTER USING A USB CABLE. (Use the port labelled "USB" on the lower rear panel of the UMC-200.)

Use a standard USB cable 6 feet or less in length.
(You may try a longer cable, but you may experience errors.)
(AVOID "audiophile" cables or multiple hubs between the computer and UMC-200.)

Installing the Firmware Update

There are FOUR firmware modules that will be installed; (they are all contained in the ONE SINGLE firmware update UPG FILE that you extracted from the RAR archive).

PLEASE FOLLOW THE STEPS EXACTLY, including quitting the firmware updater application and restarting it when instructed to do so, and powering the UMC-200 Off and On when told to do so.

The installation process will usually be successful on the first try. However, IF INSTALLATION OF ANY OF THE FIRMWARE MODULES FAILS, SKIP TO THE END OF THE SECTION FOR INSTRUCTIONS ABOUT WHAT TO DO NEXT.

Note: IGNORE any Error Messages you see in the UMC-200 front panel display during the update process.

Note: Depending on your Windows settings, when you run the firmware updater application, Windows may prompt you for permission to run the program; you must always choose ALLOW or OK when prompted
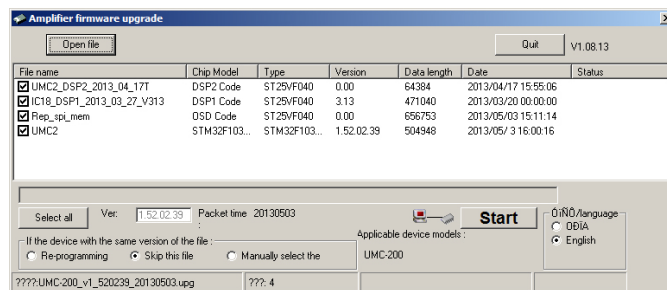
Install the first firmware module

1) Turn On the UMC-200 rear panel Power switch

2) Run the firmware updater application (either by selecting it on the Start Menu, double clicking its icon if you created one, or double clicking on the executable file directly).

3) Press the UMC-200 Standby Button to turn the UMC-200 fully On and wait for it to finish loading and volume ramp-up.

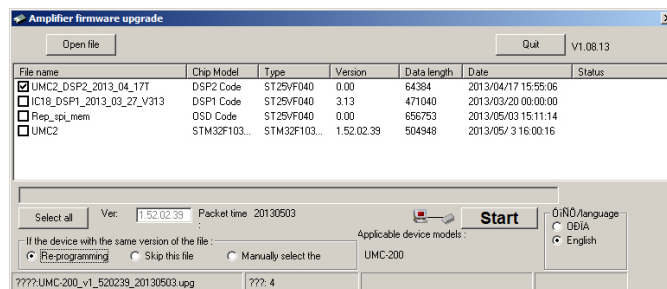*Note: Ignore any error messages you see at this point.*

At this point, the Status Icon on the firmware updater application should show a connection (NO red X).

4) Click the OPEN FILE button on the firmware updater application.

5) Select the firmware file that you extracted from the RAR archive and click OPEN.
(You may simply double click on the file name in the selector window.)

6) In the file list, all four firmware modules will initially be checked. UNCHECK the last three items list so that ONLY THE FIRST MODULE REMAINS CHECKED.

7) Click the RE-PROGRAMMING radio button and make sure that it is selected.

8) Click START.

At this point there will be a brief delay; the status cell next to the firmware module listing will show "Writing"; the thermometer bar on the display will travel from left to right (this will take only a few seconds); and the status cell will change to "Successful".

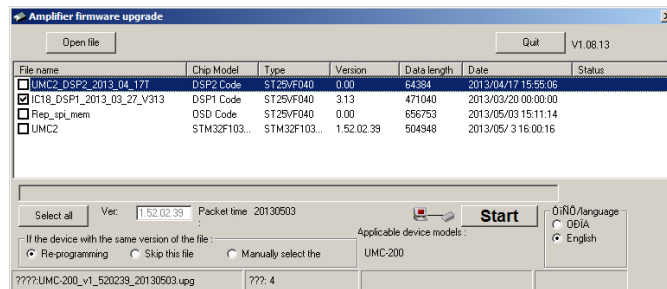9) Click QUIT.

10) Turn Off the UMC-200 rear panel Power switch.

Install the second firmware module

1) Turn On the UMC-200 rear panel Power switch

2) Run the firmware updater application (either by selecting it on the Start Menu, double clicking its icon if you created one, or double clicking on the executable file directly).

3) Press the UMC-200 Standby Button to turn the UMC-200 fully On and wait for it to finish loading and volume ramp-up.

Note: Ignore any error messages you see at this point.

At this point, the Status Icon on the firmware updater application should show a connection (NO red X).

4) Click the OPEN FILE button on the firmware updater application.

5) Select the firmware file that you extracted from the RAR archive and click OPEN.
(The firmware file location should already be selected when you open the window this time.)

6) In the file list, all four firmware modules will initially be checked. UNCHECK THE FIRST ONE AND THE LAST TWO so that ONLY THE SECOND MODULE REMAINS CHECKED.

7) Click the RE-PROGRAMMING radio button and make sure that it is selected.

8) Click START.

At this point there will be a brief delay; the status cell next to the firmware module listing will show "Writing"; the thermometer bar on the display will travel from left to right (this will take two to four minutes); and the status cell will change to "Successful".

9) Click QUIT.
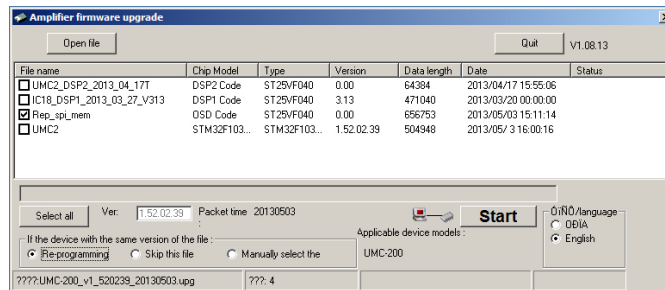
10) Turn Off the UMC-200 rear panel Power switch.

Install the third firmware module

1) Turn On the UMC-200 rear panel Power switch

2) Run the firmware updater application (either by selecting it on the Start Menu, double clicking its icon if you created one, or double clicking on the executable file directly).

3) Press the UMC-200 Standby Button to turn the UMC-200 fully On and wait for it to finish loading and volume ramp-up.

Note: Ignore any error messages you see at this point.

At this point, the Status Icon on the firmware updater application should show a connection (NO red X).

4) Click the OPEN FILE button on the firmware updater application.

5) Select the firmware file that you extracted from the RAR archive and click OPEN.
(The firmware file location should already be selected when you open the window this time.)

6) In the file list, all four firmware modules will initially be checked. UNCHECK THE FIRST TWO AND THE LAST ONE so that ONLY THE THIRD MODULE REMAINS CHECKED.

7) Click the RE-PROGRAMMING radio button and make sure that it is selected.

8) Click START.

At this point there will be a brief delay; the status cell next to the firmware module listing will show "Writing"; the thermometer bar on the display will travel from left to right (this will take about two minutes); and the status cell will change to "Successful".

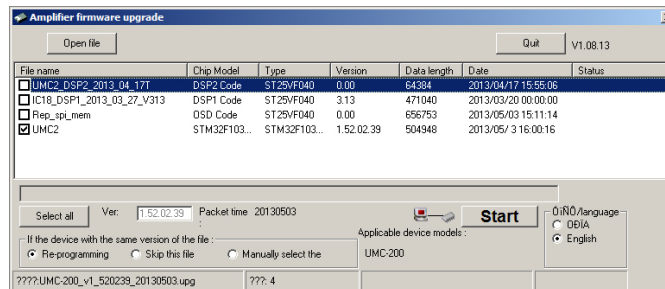9) Click QUIT.

10) Turn Off the UMC-200 rear panel Power switch.

Install the fourth firmware module

1) Turn On the UMC-200 rear panel Power switch

2) Run the firmware updater application (either by selecting it on the Start Menu, double clicking its icon if you created one, or double clicking on the executable file directly).

3) Press the UMC-200 Standby Button to turn the UMC-200 fully On and wait for it to finish loading and volume ramp-up.

Note: Ignore any error messages you see at this point.

At this point, the Status Icon on the firmware updater application should show a connection (NO red X).

4) Click the OPEN FILE button on the firmware updater application.

5) Select the firmware file that you extracted from the RAR archive and click OPEN.
(The firmware file location should already be selected when you open the window this time.)

6) In the file list, all four firmware module will initially be checked. UNCHECK THE FIRST THREE so that ONLY THE FOURTH MODULE REMAINS CHECKED.

7) Click the RE-PROGRAMMING radio button and make sure that it is selected.

8) Click START.

At this point there will be a brief delay; the status cell next to the firmware module listing will show "Writing"; the thermometer bar on the display will travel from left to right (this will take between five and ten minutes). With this module you will see more of a delay than with the others, and "Restart" and then "Waiting for CPU to run" will be displayed. Finally, the status cell will change to "Successful".

9) Click QUIT.

10) Turn Off the UMC-200 rear panel Power switch.

IF INSTALLATION OF A FIRMWARE MODULE FAILS......

On rare occasions, installation of one of the firmware modules may fail. The status cell may change immediately to "Fail", or the thermometer bar may progress part way across, then stop - at which point the status will change to Fail.

If this happens, simply make sure that the correct firmware module is checked (and re-check it if not), re-check the RE-PROGRAMMING button, and click START again.

Even if it takes more than one try, as long as the status indicates "Successful" after you retry, the update has been performed successfully.

DISCONNECT THE USB CABLE

At this point you MUST disconnect the USB cable from both the UMC-200 and your computer.

RESET THE UMC-200

At this point, you MUST do a Load Defaults to clear any old configuration information from the UMC-200's data buffers.

Note: If you use the OSD to perform the Load Defaults, ignore any unusual characters that may appear on the display before the reset is completed.

Executing a Load Defaults using the UMC-200 remote control:

1) Turn the UMC-200 On and press Menu.

2) select System Setup (if you're using the front panel display, use the left or right arrow to get to System Setup and then press Enter).

3) select Load Defaults (if you're using the front panel display, use the up or down down arrow to get to Load Defaults and then press Enter).

4) Press Enter again to confirm the Load Defaults.

CONGRATULATIONS !

You have successfully completed installing firmware update V1.52.02.39 on your UMC-200

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